

Claims

1. An electromagnetic wave irradiation tool comprising:
 - 5 a narrow tube defined by an outside diameter of 0.1 mm - 20 mm, having an electromagnetic wave irradiation terminal configured to irradiate an electromagnetic wave having a frequency equal to a characteristic frequency of a microorganism at the top of the narrow tube; and
 - 10 an electromagnetic wave generation unit configured to generate the electromagnetic wave and to supply the electromagnetic wave to the electromagnetic wave irradiation terminal.
- 15 2. The electromagnetic wave irradiation tool of claim 1, wherein the narrow tube further comprises a temperature detecting unit configured to detect temperature of the microorganism.
- 20 3. The electromagnetic wave irradiation tool of claim 1, wherein the electromagnetic wave generation unit further comprises a frequency adjustment device configured to adjust the frequency of the electromagnetic wave being irradiated to the microorganism so as to follow a change of the characteristic frequency.
- 25 4. The electromagnetic wave irradiation tool of claim 1, wherein the electromagnetic wave generation unit irradiates simultaneously electromagnetic waves having different frequencies.
- 30 5. An electromagnetic wave irradiation tool comprising:
 - an antenna-supporting member;
 - an antenna provided on the antenna-supporting member; and
 - 35 an electromagnetic wave generation unit configured to supply an electromagnetic wave having a frequency equal to a characteristic

frequency of a microorganism.

5 6. The electromagnetic wave irradiation tool of claim 5, wherein the
electromagnetic wave generation unit further comprises a frequency
adjustment device configured to adjust the frequency of the
electromagnetic wave being irradiated to the microorganism so as to follow
a change of the characteristic frequency.

10

7. The electromagnetic wave irradiation tool of claim 5, wherein the
electromagnetic wave generation unit irradiates simultaneously
electromagnetic waves having different frequencies.

15

8. An electromagnetic wave irradiation tool comprising:
a blood irrigation system having:
a blood-draw line configured to draw blood
from a biological body, and
20 a blood-return line configured to return the
blood to the biological body;
an electromagnetic wave irradiation unit configured to
irradiate an electromagnetic wave having a frequency equal to a
characteristic frequency of a microorganism existing in the blood
25 in the blood-draw line; and
an electromagnetic wave generation unit configured to
supply the electromagnetic wave to the electromagnetic wave
irradiation unit.

30

9. The electromagnetic wave irradiation tool of claim 8, wherein the
electromagnetic wave generation unit further comprises a frequency
adjustment device configured to adjust the frequency of the
electromagnetic wave being irradiated to the microorganism so as to follow
a change of the characteristic frequency.

35

10. The electromagnetic wave irradiation tool of claim 8, wherein the electromagnetic wave generation unit irradiates simultaneously electromagnetic waves having different frequencies.

5